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SOL-GEL COMPOSITION

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Abstract

PROBLEM TO BE SOLVED: To obtain a composition having uniform dispersibility, high viscosity and long-term stability in an organic solvent and/or polysiloxanes by blending an organic modified clay mineral obtained by introducing a specific quaternary ammonium ion into an intercalation of a swelling layered silicate with an anionic surfactant.

SOLUTION: The composition contains an organic modified clay mineral obtained by introducing a quaternary ammonium ion having polyoxyethylene group and/or a quaternary ammonium ion having polyoxypropylene group into intercalation of a swelling layered silicate and an anionic surfactant. The sol-gel composition is formed by dispersing the composition into an organic solvent and/or polysiloxanes. The swelling layered silicate includes e.g. a smectite based clay mineral or a swelling mica mineral.

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